IN THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of claims in the application:

 (Original) A method operating a user device in a shared network, comprising: receiving a signaling message that includes a rule set associated with a core network;

receiving broadcast information including access information associated with a shared network; and

applying the shared network information received to the core network rule set to determine a behavior of the user device.

- 2. (Original) The method of claim 1, wherein the signaling message is a registration accept message.
- 3. (Original) The method of claim 1, wherein the signaling message is a location update accept message.
- 4. (Original) The method of claim 1, wherein the signaling message is a location update reject message.
- 5. (Original) The method of claim 1, wherein the signaling message is a registration reject message.

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- 6. (Original) The method of claim 1, wherein the access information is a location identity.
- 7. (Original) The method as defined in claim 6, wherein the location identity is a location area, and wherein the user device uses the rule to translate the location area received into a mapped location area for the associated core network.
- 8. (Original) The method as defined in claim 6, where the location identity is the network identity.
- 9. (Original) The method as defined in claim 6, where the location identity is an SSID.
- 10. (Original) The method as defined in claim 6, wherein the location identity is a routing area identity, and wherein the user device uses the rule to translate the routing area received into mapped routing area for the associated core network.
- 11. (Original) The method of claim 10, wherein the behavior is transmitting the mapped location area in a routing area update request.
- 12. (Original) The method of claim 11, wherein the behavior is transmitting the mapped routing area in a routing area update request.
- 13. (Original) The method of claim 1, wherein the behavior is transmitting a location area update request for a circuit switched network.

- 14. (Original) The method of claim 1, wherein the behavior is transmitting a routing area update request for a packet switched network.
- 15. (Original) The method of claim 1, wherein the behavior is refraining from transmitting a location identity update request.
- 16. (Original) A method of operating a user device in a shared network, comprising:

receiving a registration accept message associated with a core network through the shared network, the registration accept message including a rule set, the rule set associated with a core network serving the user device through the shared network;

storing the rule set in the user device;

receiving a broadcast message from the radio access network, the broadcast message including shared network access information;

converting the shared network access information using the stored rule set to determine core network access information;

determining a desired behavior for the user device based on the core network access information.

- 17. (Original) The method of claim 16, wherein the desired behavior is transmitting a location update request.
- 18. (Original) The method of claim 16, wherein the desired behavior is transmitting a location update request to a mobile station controller.

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19. (Original) The method of claim 16, wherein the desired behavior is refraining from transmitting a location update request.

20. (Original) The method of claim 16, further comprising receiving a location area identity which is different from a stored location area identity which is stored in the user device, and refraining from transmitting a location update request.

21. (Original) A user device, comprising:

a transceiver to transmit and receive signals, the transmitter receiving a broadcast message from the radio access network, the broadcast message including a broadcast location identity associated with a shared access network; and

a controller coupled to the transceiver, the controller mapping the shared network access information in the broadcast message to a serving core network location identity using a stored rule set to determine mapped location identity, and detecting a cell reselection event when the mapped location identity indicates that a core network cell reselection is detected.

22. (Original) A method of operating a network element to support network sharing, comprising:

detecting a call establishment event for a target user device;

determining a current location identity of the target user device;

mapping the current location identity of the target device to shared access network location identities using a rule set associated with the target user device and the core network; and

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communicating a message according to the mapped access network location identities.

- 23. (Original) The method of claim 22, wherein the step of communicating the message, further comprises the step of sending a request to the radio network controller to transmit the message to the mapped location identities.
- 24. (Original) The method of claim 22, further including the step in a shared access network of determining whether a location update accept communication needs to be sent to the user device.
- 25. (Original) The method of claim 24, wherein the shared access network is a public land mobile network.
- 26. (Original) The method of claim 22, wherein the shared access network is local area network.
- 27. (Original) The method of claim 22, wherein the network element is in a core network, and further including the step transmitting a request to the local area network to broadcast a paging message on the mapped access network identity areas.
- 28. (Original) The method of claim 22, wherein the network element is in the access network, and wherein the step of communicating includes the step in the access network of sending a page from the shared network according to the mapped access

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network location identities in response to a request from the core network including the core network location identities.

29. (Original) The method of claim 22, wherein the core network signaling message is received from a core network element and the rule set is attached to the core network signaling message.

30. (Original) A network element, comprising:

a communication interface between a controller and a system including a shared access network and core networks; and

a controller coupled to the interface, the controller mapping the shared network access information to serving core network location identities using a stored rule set to determine mapped location identities, and communicating the mapped core network location identities to at least one of the access network and the core network.